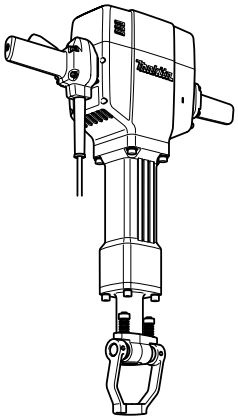
ENGLISH

Breaker Hammer

MODEL HM1800



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DOUBLE INSULATION

I N S T R U C T I O N M A N U A L

⚠ **WARNING:**
For your personal safety, READ and UNDERSTAND before using.
SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

SPECIFICATIONS

Model	HM1800
Blows per minute	1000 min^{-1}
Overall length	825 mm
Net weight	29.1 kg
Safety class	⧈ /II

- Due to our continuing programme of research and development, the specifications herein are subject to change without notice.
- Note: Specifications may differ from country to country.

SYMBOLS END201-2

The following show the symbols used for the tool. Be sure that you understand their meaning before use.

.....Read instruction manual.

.....DOUBLE INSULATION

.....Only for EU countries

Do not dispose of electric equipment together with household waste material!

In observance of European Directive 2002/96/EC on waste electric and electronic equipment and its implementation in accordance with national law, electric equipment that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

Intended use

The tool is intended for heavy chiselling and demolition work as well as for driving and compacting with appropriate accessories.

Power supply

The tool should be connected only to a power supply of the same voltage as indicated on the nameplate, and can only be operated on single-phase AC supply. They are double-insulated in accordance with European Standard and can, therefore, also be used from sockets without earth wire.

For public low-voltage distribution systems of between 220 V and 250 V.

Switching operations of electric apparatus cause voltage fluctuations. The operation of this device under unfavorable mains conditions can have adverse effects to the operation of other equipment. With a mains impedance equal or less than 0.32 Ohms it can be presumed that there will be no negative effects. The mains socket used for this device must be protected with a fuse or protective circuit breaker having slow tripping characteristics.

For European countries only

EC-DECLARATION OF CONFORMITY

We declare under our sole responsibility that this product is in compliance with the following standards of standardized documents, HD400, EN50144, EN55014, EN61000 in accordance with Council Directives, 73/23/EEC, 89/336/EEC, 98/37/EC.

Measured sound power level: 108 dB

Guaranteed sound power level: 109 dB

These sound power levels were measured in accordance with Council Directive, 2000/14/EC.

Conformity assessment procedure: Annex VI

Notified body: BSI Product Services, Maylands Avenue,

Hemel Hempstead HP2 4SQ, England

Vibration

The typical weighted root mean square acceleration value is 24 m/s^2.

Yasuhiko Kanzaki **CE 2003**

Director

MAKITA INTERNATIONAL EUROPE LTD.

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SAFETY INSTRUCTIONS

ENA001-2

⚠ WARNING:

When using electric tools, basic safety precautions, including the following, should always be followed to reduce the risk of fire, electric shock and personal injury. Read all these instructions before operating this product and save these instructions.

For safe operations:

1. **Keep work area clean.**
   Cluttered areas and benches invite injuries.
2. **Consider work area environment.**
   Do not expose power tools to rain. Do not use power tools in damp or wet locations. Keep work area well lit. Do not use power tools where there is risk to cause fire or explosion.
3. **Guard against electric shock.**
   Avoid body contact with earthed or grounded surfaces (e.g. pipes, radiators, ranges, refrigerators).
4. **Keep children away.**
   Do not let visitors touch the tool or extension cord. All visitors should be kept away from work area.
5. **Store idle tools.**
   When not in use, tools should be stored in a dry, high or locked up place, out of reach of children.
6. **Do not force the tool.**
   It will do the job better and safer at the rate for which it was intended.
7. **Use the right tool.**
   Do not force small tools or attachments to do the job of a heavy duty tool. Do not use tools for purposes not intended; for example, do not use circular saws to cut tree limbs or logs.
8. **Dress properly.**
   Do not wear loose clothing or jewellery, they can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protecting hair covering to contain long hair.
9. **Use safety glasses and hearing protection.**
   Also use face or dust mask if the cutting operation is dusty.
10. **Connect dust extraction equipment.**
    If devices are provided for the connection of dust extraction and collection facilities ensure these are connected and properly used.
11. **Do not abuse the cord.**
    Never carry the tool by the cord or yank it to disconnect it from the socket. Keep the cord away from heat, oil and sharp edges.
12. **Secure work.**
    Use clamps or a vice to hold the work. It is safer than using your hand and it frees both hands to operate the tool.
13. **Do not overreach.**
    Keep proper footing and balance at all times.
14. **Maintain tools with care.**
    Keep cutting tools sharp and clean for better and safer performance. Follow instructions for lubrication and changing accessories. Inspect tool cord periodically and if damaged have it repaired by an authorized service facility. Inspect extension cords periodically and replace, if damaged. Keep handles dry, clean and free from oil and grease.
15. **Disconnect tools.**
    When not in use, before servicing and when changing accessories such as blades, bits and cutters.
16. **Remove adjusting keys and wrenches.**
    Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.
17. **Avoid unintentional starting.**
    Do not carry a plugged-in tool with a finger on the switch. Ensure switch is off when plugging in.
18. **Use outdoor extension leads.**
    When tool is used outdoors, use only extension cords intended for outdoor use.
19. **Stay alert.**
    Watch what you are doing. Use common sense. Do not operate tool when you are tired.
20. **Check damaged parts.**
    Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, free running of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated in this instruction manual. Have defective switches replaced by an authorized service facility. Do not use the tool if the switch does not turn it on and off.
21. **Warning.**
    The use of any accessory or attachment, other than those recommended in this instruction manual or the catalog, may present a risk of personal injury.
22. **Have your tool repaired by a qualified person.**
    This electric tool is in accordance with the relevant safety requirements. Repairs should only be carried out by qualified persons using original spare parts, otherwise this may result in considerable danger to the user.

ADDITIONAL SAFETY RULES FOR TOOL

ENB009-1

1. **Hold tools by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.** Contact with a “live” wire will make exposed metal parts of the tool “live” and shock the operator.
2. **Wear ear protectors when using the tool for extended periods.** Prolonged exposure to high intensity noise can cause hearing loss.
3. **Wear a hard hat (safety helmet), safety glasses and/or face shield. It is also highly recommended that you wear a dust mask and thickly padded gloves.**
4. **Be sure the bit is secured in place before operation.**
5. **Under normal operation, the tool is designed to produce vibration. The screws can come loose easily, causing a breakdown or accident. Check tightness of screws carefully before operation.**
6. **In cold weather or when the tool has not been used for a long time, let the tool warm up for a while by operating it under no load. This will loosen up the lubrication. Without proper warm-up, hammering operation is difficult.**
7. **Always be sure you have a firm footing. Be sure no one is below when using the tool in high locations.**
8. **Hold the tool firmly with both hands.**
9. **Keep hands away from moving parts.**
10. **Do not leave the tool running. Operate the tool only when hand-held.**
11. **Do not point the tool at any one in the area when operating. The bit could fly out and injure someone seriously.**
12. **Do not touch the bit or parts close to the bit immediately after operation; they may be extremely hot and could burn your skin.**

SAVE THESE INSTRUCTIONS

FUNCTIONAL DESCRIPTION

⚠ **CAUTION:**

- Always be sure that the tool is switched off and unplugged before adjusting or checking function on the tool.

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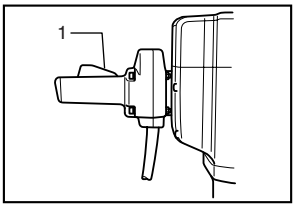

1. Switch lever

Switch action

⚠ **CAUTION:**

- Before plugging in the tool, always check to see that the switch lever actuates properly and returns to the “OFF” position when released.

To start the tool, simply squeeze the switch lever. Release the switch lever to stop.

ASSEMBLY

⚠ **CAUTION:**

- Always be sure that the tool is switched off and unplugged before carrying out any work on the tool.

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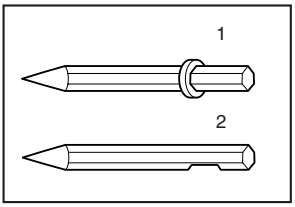

1. Bit with collar
2. Bit without coller

Installing or removing the bit

This tool accepts bits either with or without a collar on its shank.

To install the bit, follow either procedure (1) or (2) described below.

(1) For bits with a collar

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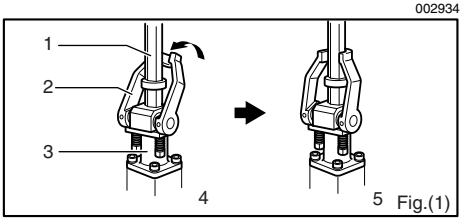

Fig.(1)

1. Bit
2. Tool retainer
3. Tool holder
4. When the bit is inserted
5. When the bit is retained

Pivot the tool retainer back and slightly downward. Insert the bit into the tool holder as far as it will go. To securely retain the bit, return the tool retainer to its original position.

⚠ **CAUTION:**

- Always assure that the bit is securely retained by attempting to pull the bit out of the tool holder after completing the above procedure.

(2) For bits without a collar

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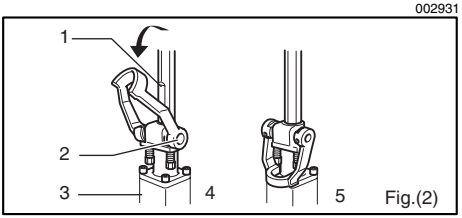

Fig.(2)

1. Notched portion
2. Tool retainer shaft
3. Cylinder
4. When the bit is inserted
5. When the bit is retained

Pivot the tool retainer front and slightly downward. With the notched portion of the bit facing the tool retainer shaft, insert the bit into the tool holder as far as it will go. Then pivot the tool retainer further downward toward the cylinder to securely retain the bit.

⚠ **CAUTION:**

- Always assure that the bit is securely retained by attempting to pull the bit out of the tool holder after completing the above procedure.
- The bit without a collar cannot be retained by the method shown in Fig.(1).

To remove the bit, follow the installation procedure in reverse.

OPERATION

Chipping/Scaling/Demolition

Hold the tool firmly with both hands. Turn the tool on and apply slight pressure on the tool so that the tool will not bounce around, uncontrolled. Pressing very hard on the tool will not increase the efficiency.

MAINTENANCE

⚠ **CAUTION:**

- Always be sure that the tool is switched off and unplugged before attempting to perform inspection or maintenance.

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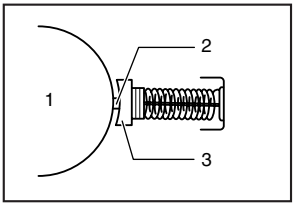

1. Commutator
2. Insulating tip
3. Carbon brush

Replacing carbon brushes

When the resin insulating tip inside the carbon brush is exposed to contact the commutator, it will automatically shut off the motor. When this occurs, both carbon brushes should be replaced. Keep the carbon brushes clean and free to slip in the holders. Both carbon brushes should be replaced at the same time. Use only identical carbon brushes.

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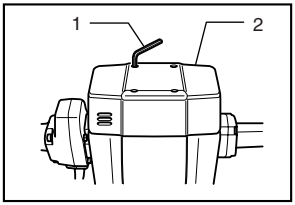

1. Hex wrench 5
2. Motor housing cover

Use a hex wrench to remove the motor housing cover.

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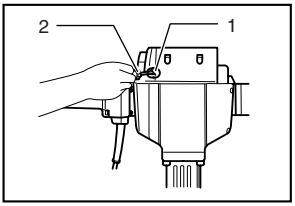

1. Brush holder cap
2. Screwdriver

Use a screwdriver to remove the brush holder caps. Take out the worn carbon brushes, insert the new ones and secure the brush holder caps.

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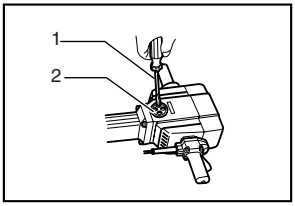

1. Screwdriver
2. Plate 50

Lubrication

This tool requires no hourly or daily lubrication because it has a grease-packed lubrication system. It should be relubricated after every 6 months of operation. Send the complete tool to Makita Authorized or Factory Service Center for this lubrication service. However, if circumstances require that you should lubricate it by yourself, proceed as follows.

First, switch off and unplug the tool.

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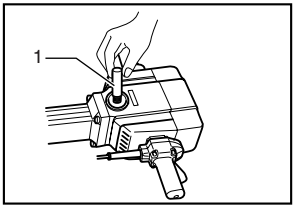

1. Hammer grease

Remove the plate 50 using a screwdriver, then replenish with fresh grease (60 g). Use only Makita genuine hammer grease (optional accessory). Filling with more than the specified amount of grease (approx. 60 g) can cause faulty hammering action or tool failure. Fill only with the specified amount of grease.

Reinstall the plate 50 and secure with the screws.

To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by Makita Authorized Service Centers, always using Makita replacement parts.

ACCESSORIES

⚠ **CAUTION:**

- These accessories or attachments are recommended for use with your Makita tool specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. Only use accessory or attachment for its stated purpose.

If you need any assistance for more details regarding these accessories, ask your local Makita service center.

- Bull point
- Cold chisel
- Scaling chisel
- Clay spade
- Rammer
- Hex wrench
- Safety goggles

Memo

Memo

Memo

Makita Corporation Anjo, Aichi, Japan

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